



QC ABSTRACT

NAME OF WORK: "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
Materials						
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2021-07-05-03 Date: 04-01-2021
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."
Agency : M/S Venkateshwara Constructions, Prop.P Venkataraju, S/o P Guruva Raju, No-57, 6th Cross, 6th Main Kodigehalli, Bangalore-92
Customer Reference : BBMP/EE/BTP/WO/161/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 02-01-2021
Type of Mix : WMM (Wet Mix Macadam)
Date of Test : 02-01-2021
Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.

All information Furnished by Customer/ Representative

Any correction in the report will make this report invalid.

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Samples will be disposed after 30 days from the date of issue of test certificate

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R. Rudraprasad
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Technical Manager

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID : CP-RW-2021-07-05-03 Date: 04-01-2021

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."

Agency : M/S Venkateshwara Constructions, Prop.P Venkataraju, S/o P Guruva Raju, No-57, 6th Cross, 6th Main Kodigehalli, Bangalore-92

Customer Reference : BBMP/EE/BTP/WO/161/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-01-2021

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of Test : 02-01-2021

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Percentage	24.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007))

Lab ID : CP-RW-2021-07-05-03 Date: 04-01-2021
 Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
 Address : Kodigehalli Sub Division, BBMP, Bangalore.
 Project Name : "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."
 Agency : M/S Venkateshwara Constructions, Prop.P Venkataraju, S/o P Guruva Raju, No-57, 6th Cross, 6th Main Kodigehalli, Bangalore-92
 Customer Reference : BBMP/EE/BTP/WO/161/2020-21
 Source of Sample : Sample supplied by Agency
 Sample Condition : Satisfactory
 Date of Receipt : 02-01-2021
 Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)
 Date of Test : 02-01-2021

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : CP-RW-2021-07-05-03 **Date:** 16-06-2021

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."

Agency : M/S Venkateshwara Constructions, Prop.P Venkataraju, S/o P Guruva Raju, No-57, 6th Cross, 6th Main Kodigehalli, Bangalore-92

Customer's Reference : BBMP/EE/BTP/WO/161/2020-21

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-06-2021

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of Test : 14-06-2021

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	245	Min. 220°C
	Fire point, °C	272	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

**TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)**

Lab ID : CP-RW-2021-07-05-03 Date: 19-06-2021
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."
Agency : M/S Venkateshwara Constructions, Prop.P Venkataraju, S/o P Guruva Raju, No-57, 6th Cross, 6th Main Kodigehalli, Bangalore-92
Customer Reference : BBMP/EE/BTP/WO/161/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-06-2021
Type of Mix : BC-Plant (Bituminous Concrete)
Date of Test : 17-06-2021
Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2021-07-05-03 Date: 19-06-2021
Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address : Kodigehalli Sub Division, BBMP, Bangalore.
Project Name : "Patching Pot Holes in Various Roads of Sahakarnagara and Surrounding Areas in Ward No.08 Kodigehalli."
Agency : M/S Venkateshwara Constructions, Prop.P Venkataraju, S/o P Guruva Raju, No-57, 6th Cross, 6th Main Kodigehalli, Bangalore-92
Customer Reference : BBMP/EE/BTP/WO/161/2020-21
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 17-06-2021
Type of Mix : BC(Bitumenous Concrete)
Date of Test : 17-06-2021
Type of Binder : 60/70
% of Binder Used : 5.0%
Weight of Aggregate : 200.0 gm
Weight of Binder : 10.0 gm
Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

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